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Г	APPLICATION NO.	F.	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	09/740,146	09/740,146 12/18/2000		Anisul Khan	AM-3396.D1	4163	- c
	32588	7590	10/03/2003		EXAM	INER	]
			IALS, INC.		GOUDREAU, GEORGE A		_
	2881 SCOT				ART UNIT	PAPER NUMBER	1
	SANTA CL	AKA, CA	4 95050		1763		] ] ]
					DATE MAILED, 10/02/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.  Applicant(s)
Office Action Summary	Examiner Group Art Unit
	George Goudreau 1763
- The MAILING DATE of this communication appear	s on the cover sheet beneath the correspondence address—
Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	O EXPIRE MONTH(S) FROM THE MAILING DA
from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a  If NO period for reply is specified above, such period shall, by defa- Failure to reply within the set or extended period for reply will, by st	t 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MON reply within the statutory minimum of thirty (30) days will be considered time alt, expire SIX (6) MONTHS from the mailing date of this communication. atute, cause the application to become ABANDONED (35 U.S.C. § 133). ailing date of this communication, even if timely, may reduce any earned pate
Status	21/0
Responsive to communication(s) filed on 7 - C	3'(le, -paper #8)-
☐ This action is FINAL.	
<ul> <li>Since this application is in condition for allowance excep accordance with the practice under Ex parte Quayle, 19</li> </ul>	t for formal matters, <b>prosecution as to the merits is closed</b> in 15 C.D. 1 1: 453 O.G. 213
Disposition of Claims	
X Claim(s) 37-55-	is/are pending in the application.
/ N	is/are withdrawn from consideration
□ Claim(s)	
X Claim(s) 37-55	is/are rejected.
☐ Claim(s)	
□ Claim(s)	. •
Application Papers	requirement
☐ The proposed drawing correction, filed on	is approved disapproved.
☐ The drawing(s) filed on is/are objection	cted to by the Examiner
☐ The specification is objected to by the Examiner.	
☐ The oath or declaration is objected to by the Examiner.	
Priority under 35 U.S.C. § 119 (a)–(d)	
☐ Acknowledgement is made of a claim for foreign priority	under 35 U.S.C. § 119 (a)-(d).
☐ All ☐ Some* ☐ None of the:	
☐ Certified copies of the priority documents have been	received.
☐ Certified copies of the priority documents have been	
☐ Copies of the certified copies of the priority documer	
in this national stage application from the Internation	• • •
*Certified copies not received:	•
Attachment(s)	.e. r
Information Disclosure Statement(s), PTO-1449, Paper N	o(s). 56 □ Interview Summary, PTO-413
Notice of Reference(s) Cited, PTO-892	☐ Notice of Informal Patent Application, PTC
☐ Notice of Draftsperson's Patent Drawing Review, PTO-94	8
Office A	ction Summary

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No. \_\_\_\_\_

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- The previous election of species requirement is withdrawn at this time without prejudice.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 38-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Qian et. al. (6,136,211).

Qian et. al. disclose a rie etching apparatus which is equipped with means for forming a plasma using an RF inductively coupled coil (115) which surrounds the plasma etching chamber. The substrate to be rie etched rests on an RF biased cathode. A computer is used to control the introduction of several different process gasses (i.e-at least three different process gasses) into the plasma etcher so that different etching processes may be performed sequentially on the wafer. The RF power supplied to the cathode electrode is matched to the RF power supplied to the anode electrode (i.e.-the inductively coupled RF coil). This is discussed specifically in columns 3-13; and discussed in general in columns 1-20. This is shown in figures 1-7.

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Qian et. al. fail, however, to specifically disclose the following aspects of applicant's claimed invention:

-the specific usage of the specific gasses which are claimed by the applicant;

-the specific usage of a computer to control the amount of power supplied to each electrode during the etching process; and

-the conduction of the specific process which is claimed by the applicant

It would have been obvious to one skilled in the art to use a computer to control the amount of power supplied to each of the anode, and the cathode electrodes in the apparatus taught above based upon the following. The usage of a computer to control the amount of power supplied to electrodes in a plasma etcher is conventional or at least well known in the plasma etching arts. (The examiner takes official notice in this regard.) Further, this simply represents the usage of an alternative, and at least equivalent means for adjusting the power supplied to each electrode in the apparatus taught above to the specific means which are taught above. Also, the examiner cites the case law listed below of interest to the applicant in this regard.

<u>In re Venner</u> (120 U.S.P.Q. 192 (CCPA )) states that it is not an "invention" to broadly provide mechanical or automatic means to replace manual activity which has accomplished the same results.

Thus, it would have been obvious to one skilled in the art to use a computer to adjust the amount of power sent to each electrode in the apparatus taught above based upon <u>In re Venner</u> as cited above since this reference teaches the manual adjustment of the amount of power sent to each electrode.

In regards to applicant's claimed process limitations in their apparatus claims, the examiner cites the case law listed below of interest to the applicant.

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Furthermore, it is obvious to one skilled in the art that the configuration of the substrate worked upon by the apparatus claimed in this invention is not patentable in view of <u>In re Young</u> (25 U.S.P.Q. 69, 71 (CCPA 1935)) and <u>In re Rishoi</u> (94 U.S.P.Q. 71,73 (CCPA 1952)). The Court of Customs and Patent Appeals stated in <u>In re Young</u> that inclusion of material worked upon by a machine as element in claim may not lend patentability since claim is not otherwise allowable. Similarly, the Court of Customs and Patent Appeals stated in <u>In re Rishoi</u> that there is no patentable combination between a device and the material upon which it works.

Thus, it irrelevant if the apparatus taught above is used to conduct applicant's claimed process since the apparatus taught above is clearly capable of conducting applicant's claimed process. Further, it is irrelevant if the specific process gasses which are claimed by the applicant are employed in the apparatus taught above since the apparatus taught above teaches the usage of at least three different process gasses, and is inherently capable of using the specific process gasses which are claimed by the applicant. Thus, all of applicant's claimed limitations are fully met in this regard.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner George A. Goudreau whose telephone number is (703) -308-1915. The examiner can normally be reached on Monday through Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Examiner Gregory Mills, can be reached on (703) -308-1633. The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) -306-3186.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) -308-0661.

George A. Goudreau/gag

Primary Examiner

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